

FIG.1

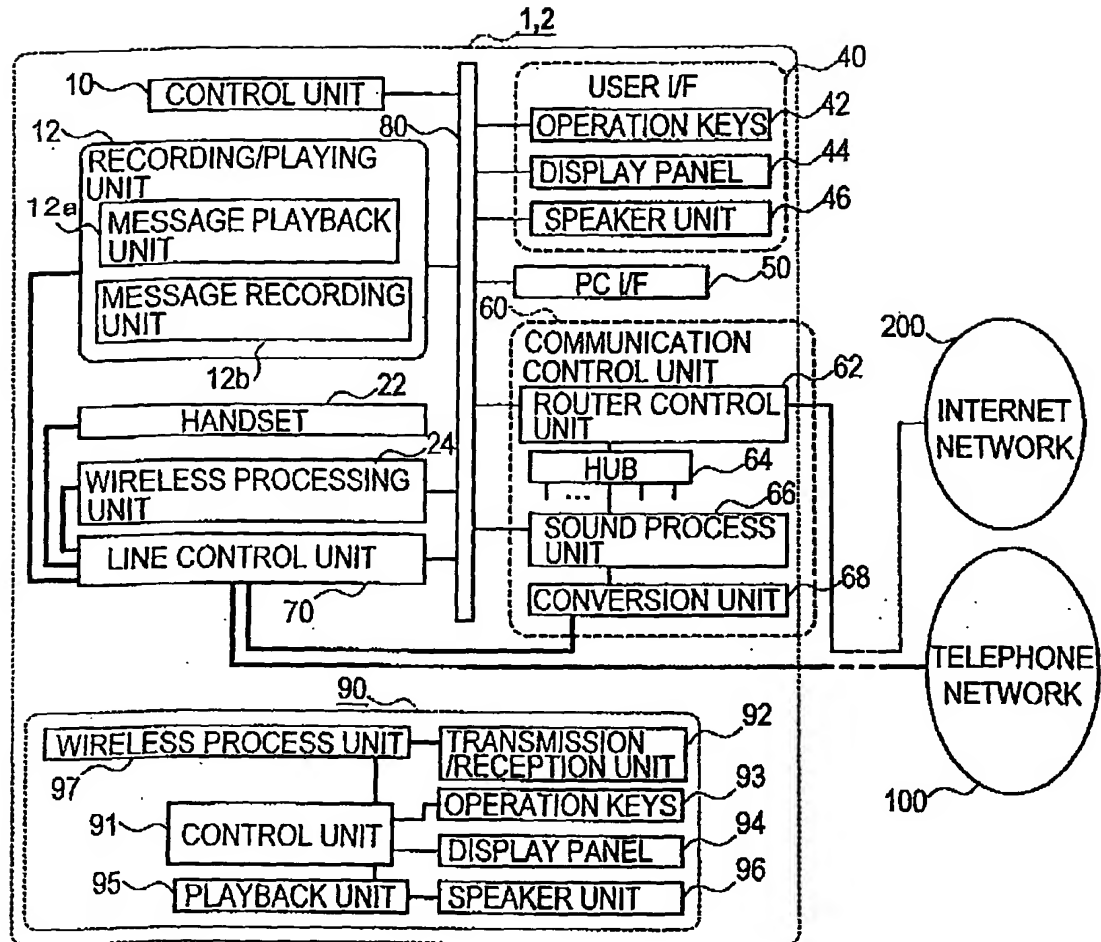


FIG. 2

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graph TD
    START([START]) --> S110{INCOMING CALL RECEIVED?}
    S110 -- NO --> S180{CALLING OPERATION DONE?}
    S110 -- YES --> S120[INITIATION OF RINGING TONE OUTPUT]
    S180 -- YES --> S190[CALLING]
    S180 -- NO --> S110
    S120 --> S130{OFF-HOOK OPERATION DONE?}
    S130 -- YES --> S160[TERMINATION OF RINGING TONE OUTPUT]
    S130 -- NO --> S140{INCOMING CALL CONTINUING?}
    S160 --> S210{RESPONDED?}
    S140 -- YES --> S150[TERMINATION OF RINGING TONE OUTPUT]
    S140 -- NO --> S170[TRANSMISSION PATH SETTING, LINE CONNECTION]
    S210 -- YES --> S240{TRANSFER OPERATION DONE?}
    S210 -- NO --> S250{ON-HOOK OPERATION DONE?}
    S240 -- YES --> S270[REQUEST FOR LINE CONNECTION]
    S240 -- NO --> S250
    S270 --> S280{RESPONDED?}
    S280 -- YES --> S260[TRANSMISSION PATH RESET, LINE DISCONNECTION]
    S280 -- NO --> S290{TRANSFER CANCEL OPERATION DONE?}
    S250 -- YES --> S260
    S250 -- NO --> S220{ON-HOOK OPERATION DONE?}
    S220 -- YES --> S230[TRANSMISSION PATH RESET, LINE DISCONNECTION]
    S220 -- NO --> S290
    S290 -- YES --> S300[CANCELLATION OF CONNECTION REQUEST]
    S290 -- NO --> S310{ON-HOOK OPERATION DONE?}
    S300 --> B((B))
    S310 -- YES --> S330[RELAY INITIATION]
    S310 -- NO --> S320{ON-HOOK OPERATION DONE?}
    S330 --> S340[DISABLING AUDIO SIGNAL INPUT/OUTPUT]
    S320 -- YES --> S360[LINE DISCONNECTION]
    S320 -- NO --> S350{AUDIO CALL TERMINATED?}
    S340 --> S350
    S350 -- YES --> S360
    S350 -- NO --> S360
    S360 --> A((A))
    S260 --> A
    S230 --> A
    S150 --> A
    S190 --> S190
```

FIG.3

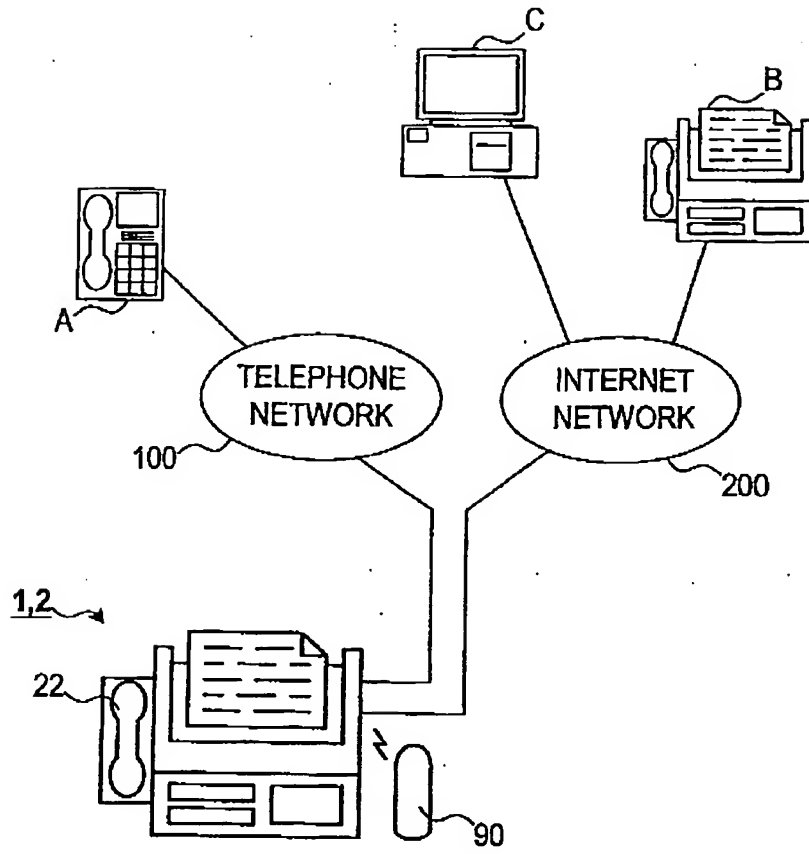


FIG.4

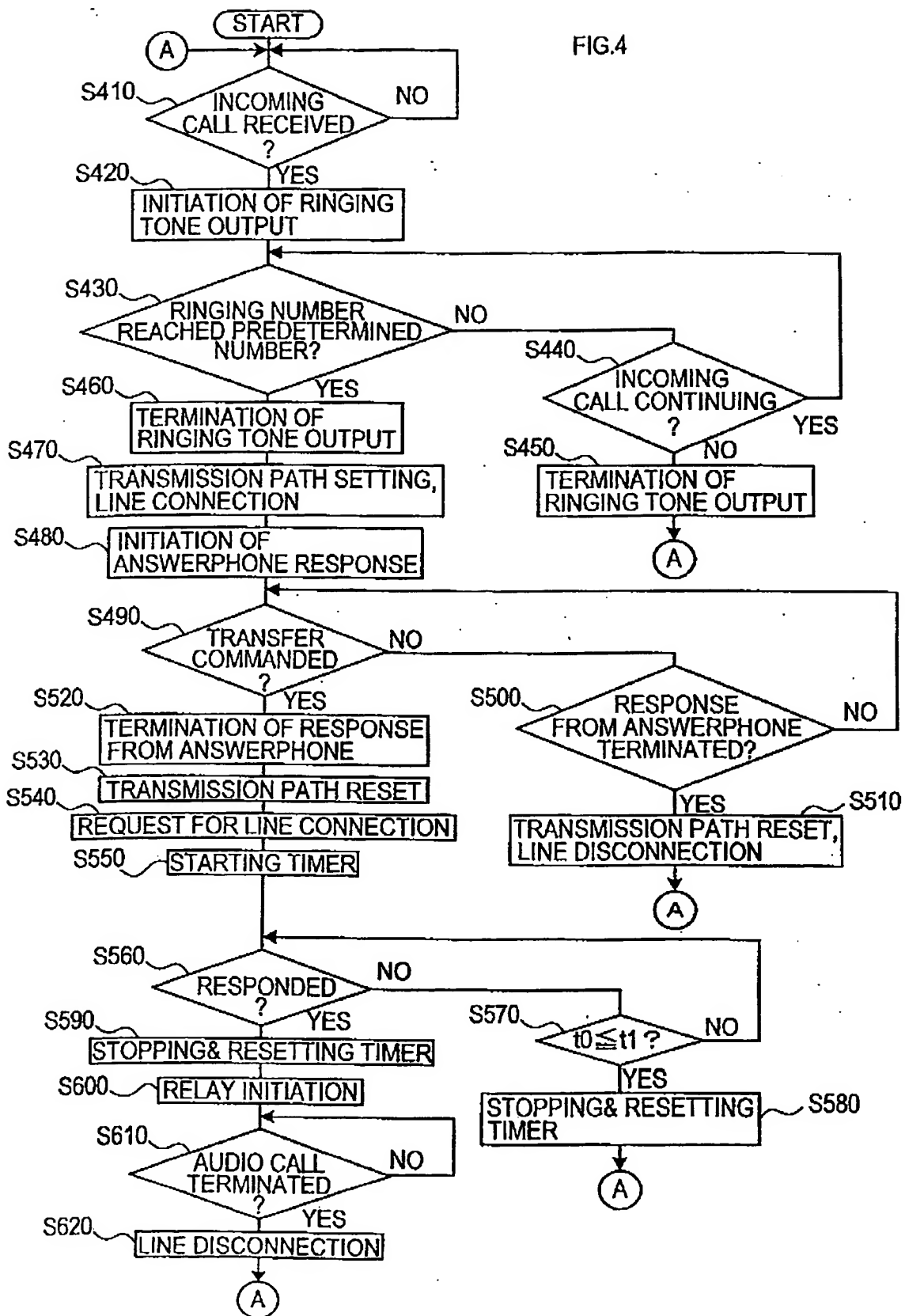


FIG.5

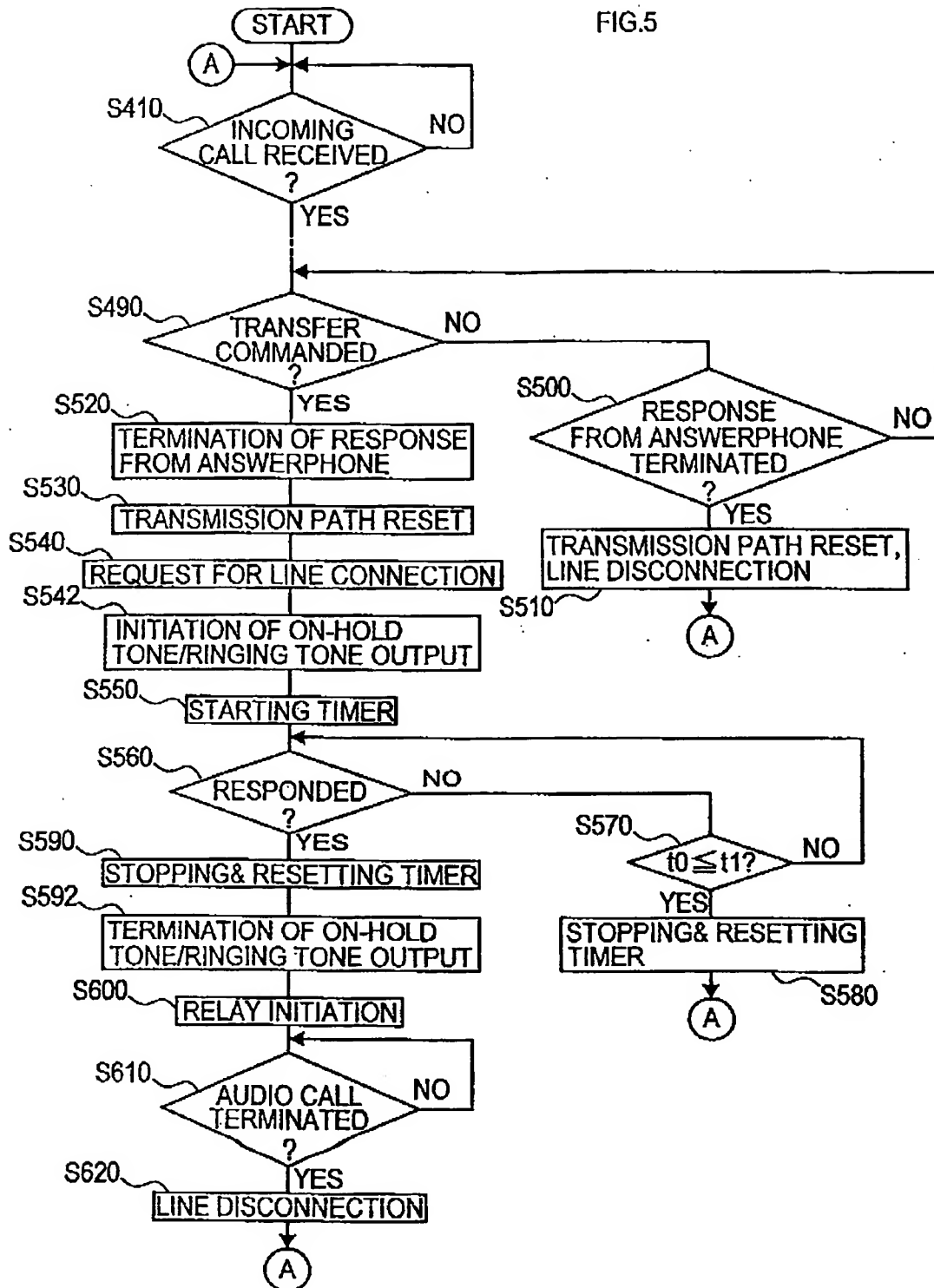


FIG.6

